

L 4107-66

ACC NR: AP5021494

pensive, and standard equipment, still employ about 70% of workers on manual tasks, too often involving hard labor (32% of indirect labor). Specifically, the outlays for modernizing and improving the productivity of the latter group amounted to 8% of the outlays for mechanization and automation of production processes, while the primary production group received 91% of the funds.

Mechanization of indirect labor was found by the authors to be not only the most practical way to increase labor productivity, but also the "shortest" and the least "costly." They have suggested that the best way to achieve it is through 1) mechanization of loading, unloading, storage, and other indirect labor functions, 2) automation of power units, and 3) centralization of repair and tool shops. Furthermore, the authors suggest that definite improvement could be made through wide introduction of modern methods of automatic inspection and quality control, and also through the introduction of statistical quality control. Among additional measures, they suggest strict observance of "technological discipline" in order to attain uniformity in the quality of goods produced.

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ACC NR: AP5021494

They question the validity of the decree by the State Committee on Coordination of Scientific Research, issued on 11 January 1965, stipulating that "all primary and supporting production processes..." and also "processes involving preparatory functions and production management" should be mechanized before 1971. The authors state that "there are neither the means nor time, nor engineering resources to realize a goal of such scope by 1970. We are astounded by the repetition of such cliches even now, when there are only five years left to accomplish the program set forth by the Party..."

[AND PRESS: 4121-2]

SUB CODE: GO, IE / SUBM DATE: none

BVK

Cord 4/4

MEZHLUMYAN, S.K.

Bear in beach deposits of Lake Sevan. Izv. AN Arm. SSR. Biol.
nauki 12 no. 4: 85-88 Ap '59. (MIRA 12:9)

1. Zoologicheskii institut Akademii nauk ArmSSR.
(SEVAN REGION--BEARS, FOSSIL)

MYHLEN, S.K.

Occurrence of remnants of the river beaver *Castor fiber* L. from
the Aeneolithic layers of the village Shengavit in the Armenian
S.S.R. Izv. AN Arm. SSR. Biol. nauki 17 no.12:119-112 1964.
(MIRA 18:3)

logicheskiy smysl AN Armyanskoy SSR.

MEZHLUMYAN, S.K.;

Cattle from the Aeneolithic site of the Shergavit village and Bronze Age burials in the Lchashen village (Armenian S.S.R.). Izv. AN Arm. SSR. Biol. nauki 18 no.3:64-74 Mr '65. (MIRA 18:5)

1. Zoologicheskii institut AN Arm.S.R.

^I
MEKHNEV, D., inshener.

Experience in designing and installing "arktilit" sheathing for
sectional sluice gates of the Moskva Canal. Mor. i rech.flot 14 no.9:
20-21 S '54. (MIRA 7:10)
(Moscow Canal--Sluice gates)

ZHDANOV, Vladimir Sergeyevich; KUSKOV, Lev Sergeyevich; LAVRINOVICH, Lev Petrovich; ~~MIZHNEV~~, Dmitriy Ivanovich; POROCHKIN, Yevgeniy Makarovich; RUMYANTSEV, Aleksandr Mikhailovich; SVETLOV, Mikhail Fedorovich; YARUSTOVSKIY, Andrey Aleksandrovich; RZHANITSYN, N.A., kandidat tekhnicheskikh nauk, redaktor; VINOGRADOVA, N.M., redaktor izdatel'stva; SALAZKOV, N.P., tekhnicheskii redaktor

[Operation of hydraulic engineering installations] Eksploataatsiya gidrotekhnicheskikh sooruzhenii. Pod red. N.A.Rzhanitsyna. Moskva, Izd-vo "Rechnoi transport," 1956. 406 p. (MLRA 10:2)
(Hydraulic engineering)

MEZHNEV, D., inzh.

The settling of dock-type chambers of navigation locks.
Rech. transp. 23 no.7:33-34 J1 '64. (MORA 17-10)

1. Upravleniye kanala imeni Moskvy.

ZHIANOV, Vladimir Sergeyevich; KUSKOV, Lev Sergeyevich; LAVRINOVICH,
Lev Petrovich; MEZHNEV, Dmitriy Ivanovich; POROCHKIN,
Yevgeniy Makarovich; RUMYANTSEV, Aleksandr Mikhaylovich;
SVETLOV, Mikhail Fedorovich, YARUSTOVSKIY, Andrey
Aleksandrovich; LAGAR'KOV, N.I., red.; PEREKHVAL'SKIY, V.S.,
retsenzent; FEDYAYEVA, N.A., red. izd-va; RIDNAYA, I.V.,
tekhn. red.

[Operation of hydraulic structures] Ekspluatatsiya gidrotekhnicheskikh sooruzhenii. Izd.2. By V.S.Zhdanov i dr. Moskva, Izd-vo "technoi transport," 1961. 289 p. (MIRA 15:2)
(Hydraulic structures)

DAVIDOV, Yu.S.; MEZHNEV, N.I.

Calculations for the stability of underwater pipelines. Stroitel'stvo
truboprov. 8 no.6:31-34 Je '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po
stroitel'stvu magistral'nykh truboprovodov.
(Underwater pipelines—Design and construction)

MEZHNIKOV, A. N., kand. tekhn. nauk

Friction coefficient in contacts of friction elements and the
efficiency of toroid friction drives operating in an oil
medium. Vest. mashinostr. 42 no.10:38-42 0 '62.
(MIRA 15:10)

(Gearing) (Friction)

MOZHOV, A.I.

Taking material for the study of dysentery vacilli by means of the
bacto-agar tampon. Lab.delo 5 no.6:39 N-D '59. (MIRA 13:3)
(DYSENTERY--BACTERIOLOGY)

MEZHOV, A.I.

Evaluation of results of the complement fixation by counting the
number of nonhemolyzed erythrocytes. Zhur.mikrobiol.epid.i immun.
31 no.8:137-139 Ag '60. (MIRA 14:6)
(COMPLEMENT FIXATION)

LEBEDEV, G.I.; MEZHOV, A.I.; BORISOV, I.I.

Diagnosis of staphylococcal food poisonings. Zhur.mikrobiol.,
epid.i immun. 32 no.12:116 D '61. (MIRA 15:11)

1. Iz sanitarno-epidemiologicheskoy stantsii, Petropavlovsk-
Kamchatskiy.

(FOOD POISONING)

(STAPHYLOCOCCUS)

MM.DT, V.S.; MEKHON, E.A.

Structure and extract on capability of an...
Usp. khim. 74 no. 2, 1981, 145-146. (M.D.A. 12.8)

SHEVCHENKO, V.B.; SEMIDT, V.S.; MEZHOV, E.A.

Extraction of plutonium with tri-n-octylamine from hydrochloric
acid solutions. Zhur. neorg. khim. 5 no.8:1911-1913 Ag '60.
(MIRA 13:9)

(Plutonium) (Octylamine)

MEZHOV, E.A.; PUSHKOV, A.A.; SHMIDT, V.S.

Extraction of nitric acid with dioctylamine. Zhur.neorg.khim.
7 no.4:932-935 Ap '62. (MIRA 15:4)
(Nitric acid) (Octylamine)

MEZHOV, I.A., inzhener-nachal'nik; BUDASHKIN, P.P., inzhener; BARANOV, V.N., inzhener; SKUYEV, V.I., inzhener; KADIL'NIKOV, M.F., inzhener; DERKACH, I.M., inzhener; KONDRAT'YEVA, O.F., tekhnik; GURKIN, V.I., kandidat tekhnicheskikh nauk; SOLOV'YEVA, M.S., inzhener; UDOD, V.Ya., redaktor izdatel'stva; SKVORTSOVA, I.P., redaktor izdatel'stva; BOROVNEV, N.K., tekhnicheskii redaktor

[Model technological charts for sanitary engineering] Tipovye tekhnologicheskie karty po sanitarno-tekhnicheskim rabotam. Moskva, Gos.izd-vo lit-ry po stroit. i arkhitekt., 1957. 150 p. (MIRA 10:7)

1. Akademiya stroitel'stva i arkhitektury SSSR, Nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii stroitel'stva. 2. Normativnoye byuro TSudostroya Ministerstva putey soobshcheniya (for Mezhev, Budashkin, Baranov, Skuyev, Kadil'nikov, Derkach, Kondrat'yeva)
 3. Nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii stroitel'stva (for Solov'yeva, Gurkin)
- (Plumbing)

1. ALEKSEYeva, Ye. N.: MEZHov, V. D.
2. USSR (600)
4. Carboxylic Acids
7. Structure of the copolymer of butadiene and acrylo nitrile. Synthesis of hexa-
netetracarboxylic acids. Zhur. ob;khim. 22 no.10, 1952.
9. Monthly List of Russian Accessions, Library of Congress. February 1953. Unclassif.ed.

LEVKOVICH, M.M.; MEZHOV, V.D.; DZHAKELI, T.N.

Production of secondary alkyl sulfates. Khim. i tekhn. topl. 1
masel 6 no. 5:24-29 My '61. (MIRA 14:5)
(Paraffins) (Sulfuric acid)

L 1573-66

ACCESSION NR: AP9019217

AUTHOR: Mozhkov-Daglin, L. P. 44.65

UR/0036/65/049/001/0066/0079

TITLE: Measurement of the thermal conductivity of crystalline He⁴

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 1, 1965, 66-79

TOPIC TAGS: helium, heat conductivity, pressure effect, single crystal growing, crystal imperfection

ABSTRACT: This is a continuation of earlier work by the author (ZhETF v. 46, 1926, 1964) devoted to controlled growing of perfect He⁴ crystals and to investigations of their characteristics. The present paper reports measurements of the thermal conductivity of crystalline He⁴ at temperatures 0.5--2.5K and pressures up to 185 atm, using equipment in which the growth of the crystal could be effected at constant pressure and under continuous visual and temperature control. The apparatus is based on the technique developed originally by A. I. Shal'nikov (ZhETF v. 41, 1056 and 1059, 1961) and its construction and operation are described in detail. Single crystals having a low concentration of lattice defects were obtained. The temperature dependence and maximum thermal conductivity of these single crystals differ greatly from the ordinary observed properties. First, the decrease in ther-

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ACCESSION NR: AP5019217

18

mal conductivity at lower temperatures, after passing through a maximum, deviates from the $K \sim T^3$ law, and is better described by $K \sim T^n$, with n varying from 6--8 near the maximum to ~ 3 at the lowest temperatures. Second, the maximum effective phonon mean free path can be several times longer than the diameter of the sample. This behavior is in good agreement with the theory of R. N. Gurzhi (ZhETF v. 46, 719, 1964) regarding transport processes in ideal crystals. "The author is grateful to P. L. Kapitza for the opportunity of performing the work at Institut fizicheskikh problem (Institute of Physics Problems) and for interest in the work, to A. I. Shal'nikov for suggesting the topic, interest, and valuable advice, to D. I. Vasil'yev for help in the experiment, and to R. N. Gurzhi for valuable discussions."

44
55
44
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44.55

Orig. art. has: 9 figures, 11 formulas, and 1 table.

ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR (Institute of Physics Problems, Academy of Sciences, SSSR); Institut fiziki tverdogo tela Akademii nauk SSSR (Institute of Solid State Physics, Academy of Sciences, SSSR)

SUBMITTED: 29 Jan 65

ENCL: 00

SUB CODE: 88

NR REF SOV: 008

OTHER: 007

Card 2/2

40

ACCESSION NO: AP4037619

S/0056/64/046/005/1926/1927

AUTHOR: Mezhev-Deglin, L. P.

TITLE: Thermal conductivity of solid He⁴

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1926-1927

TOPIC TAGS: helium crystals, solid helium, He sup 4, helium crystal growing, thermal conductivity, Kapitza temperature jump, Shal'nikov method, Khalatnikov theory

ABSTRACT: Helium crystals were grown by the method developed by A. I. Shal'nikov (ZhETF, 10, 1056, 1961) in a glass ampul at almost constant pressure. The properties of the crystals were studied, and some results are given in Figs. 1 and 2 of the Enclosure. Fig. 1 shows the dependence of the thermal conductivity of He⁴ on temperature for: 1) a crystal grown for 1.5 hrs at 82 atm ($\theta_D = 33.7K$) (curve 1); 2) crystals of the same density as in 1 before and after annealing (data of F. T. Webb and H. A. Fairbank) (curves 2 and 3); and 3) a crystal grown at 185 atm ($\theta_D = 43.5K$) (curve 4). Heating the crystals

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to temperatures near the melting point has almost no effect on thermal conductivity, attesting to the high degree of perfection of the crystals. Fig. 2 presents data on Kapitza's temperature jump on the solid He⁴-copper boundary in the case of a crystal grown at 185 atm. These data confirm the predictions of I. M. Khalatnikov's theory (ZhETF, 22, 687, 1952). Further results of this study will be published at a later date. The author expresses his gratitude to P. L. Kapitza, who provided the opportunity for him to conduct this study at the Institute of Physical Problems, and to A. I. Shal'nikov for his interest and valuable advice. Orig. art. has: 2 figures

ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR (Institute of Physical Problems, Academy of Sciences, SSSR); Institut fiziki tverdogo tela Akademii nauk SSSR (Institute of Solid State Physics, Academy of Sciences, SSSR)

SUBMITTED: 14Mar64

DATE ACQ. 09Jun64

ENCL: 02

SUB CODE: SS "

NO REF SOV: 003

OTHER: 006

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Cord

ACCESSION NR: AP4037619

ENCLOSURE: 01

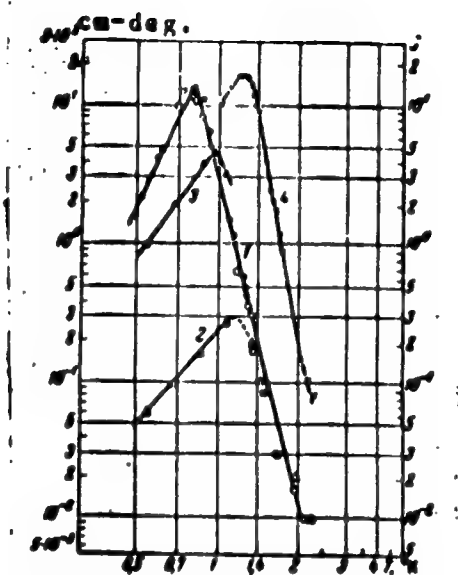
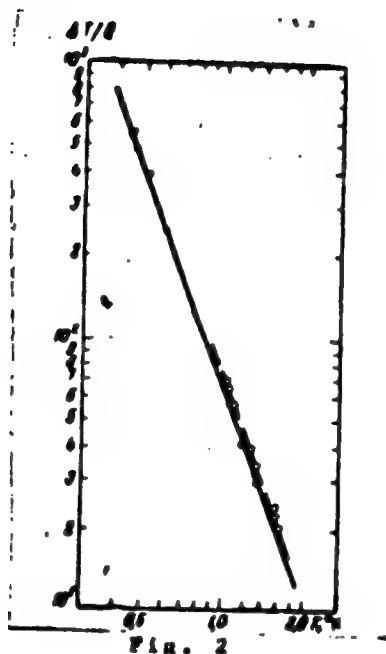


Fig. 1

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ENCLOSURE: 02



Card 4/4

MEZHOVA, A. I.

USSR/Medicine - Stomatitis
Penicillin

Apr/May/Jun 50

"Treatment of Severe Types of Ulcerative Stomatitis With Penicillin," T. G.
Gol'dova, A. I. Mezhoval, Candidates Med Sci, Chair of Therap Stomatol, Khar'kov
Med Stomatol Inst, 2 pp

"Stomatologiya" No 2

Discusses results of treating 60 cases of ulcerative stomatitis with water and oil
solutions of penicillin. Finds both methods very effective, but oil solution more
so. Clinical recovery occurred in majority of cases, 4 or 5 days after initiation
of treatment. Recommends extensive use of penicillin for therapy of ulcerative
stomatitis. Chief, Chair of Stomatol: Docent Ya. L. Fridman; Dir, Khar'kov Med
Stomatol Inst; Prof P. V. Vlasenko.

PA 160T55

FRIDMAN, Ya.L., dotsent (Khar'kov); GOL'DOVA, T.G., kandidat meditsinskikh nauk (Khar'kov); MEZHOVA, A.I., kandidat meditsinskikh nauk (Kha: 'kov)

Using penicillin in the treatment of subacute apical peridontitis of teeth with a single root. Probl. stom. 3:105-108 '56
(MLRA 10:5)

(PENICILLIN) (TEETH--DISEASES)

MEZHOVA, F. A.; RABINOVICH, A. L.

Follow-up of rheumatic patients during 15 years. *Pediatrics*,
Moskva no.5:26-31 Sept-Oct. 1950. (CML 20:1)

1. Of the Rheumatic Clinic attached to the Clinical Children's
Hospital (Head Physician -- Honored Physician **NSPSS** Ye. V.
Prokhorovich; Head of Division -- Candidate of Medical Sciences
Z. I. Edel'man).

PA 18/.7T61

MEZHOVA, I. A.

Oct/Nov/Dec 48

USSR/Medicine - Stomatitis
Medicine - Gramicidin

"Use of Gramicidin for the Treatment of Ulcerous
Stomatitis," I. A. Mezova, Cand Med Sci, Chair of
Therapeutic Stomatol, Khar'kov Stomatol Inst, 3 pp

"Stomatologiya" No 4

Describes own experience with gramicidin. Concludes
it is effective means of treating ulcerated
stomatitis: 0.16% aqueous solutions of gramicidin
have no harmful effect on mucous membrane of the
mouth. Gramicidin has pronounced anesthetic
properties.

18/49T61

ZABELLO, M.L., kandidat tekhnicheskikh nauk; MEZHOVA, R.V., inzhener; PRYSAKH-ZON, B.M., kandidat tekhnicheskikh nauk, ~~Redaktor~~; YUDZON, D.M., tekhnicheskiiy redakter.

Organising the transport of perishable goods. Truly TSNII MPS no.93:
3-115 '54. (MIRA 8:6)

(Railroads—Freight) (Refrigerator cars)

MEZHOVA, E. V.

"The technical Scheduling of Freight Trains Bearing Perishable Goods." Card Tech Sci, All-Union Sci Res Inst of Railroad Transport, Min Transportation USSR, Moscow, 1955. (KL, No 9, Feb 55)

So: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

1112-1111 RV
GUSEV, S.O., kandidat tekhnicheskikh nauk

Book on the transport of perishable goods ("Problems in organizing
the transport of perishable freight." M.L.Zabello, R.V.Meshova.
Reviewed by S.O.Gusev). Zhel.dor.transp. 37 no.10:95-96 0 '55.
(MIRA 9:1)

(Railroads--Freight) (Zabello, M.L.) (Meshova, R.V.)

ZABELLO, M.L., kandidat tekhnicheskikh nauk; MEZHKOVA, R.V., kandidat tekhnicheskikh nauk.

Increasing the speed of time-freight trains. Vest. TSNII MPS 15 no.
1:48-52 Ag '56. (MLRA 9:12)

(Railroads--Freight)

FEL'DMAN, B.D.; MEZHOVA, R.V.; SHUL'KO, V.P.; TSARENKO, A.P., red.;
BOBROVA, Ye.N., tekhn.red.

[Problems in the standardisation of weight norms and routing of
freight shipments] Voprosy unifikatsii vsesovnykh norm i
marshrutizatsii gruzovykh perevozok. Moskva, Vses. izd-ko poligr.
ob"edineniia m-va putei soob., 1960. 175 p. (Moscow, Vsesoiuznyi
nauchno-issledovatel'skii institut shelesnodorozhnogo transporta.
Trudy, no.186) (MIRA 13:10)

(Railroads--Freight)

MEZHOVA, R.V., kand.tekhn.nauk; SHAPOVALENKO, M.M., inzh.

Refrigerator cars will be the basic type of refrigerated transportation
of the near future. Zhel.dor.transp. 42 no.10:16-20 0 '60.
(MIRA 13:10)

(Refrigerator cars)

MEZHOVA, R.V., kand.tekhn.nauk; SHUL'KO, V.P., kand.tekhn.nauk

Instead of being differentiated, the making up of shipper's special destination trains and long distance through freight trains should be correctly combined. Zhel.dor.transp. 43 no. 8:49-51 Apr '61. (MIRA 14:8)

(~~Railroads~~—Making up trains)

BERNGARD, K.A., doktor tekhn.nauk; MEZHOVA, R.V., kand.tekhn.nauk

Analysis of the plan for making up direct trains on extended haul
distances. Vest.TSNIIMPS 21 no.7:17-21 '62. (MIRA 15:12)
(Railroads—Making up trains)

MEZHOVA R.V.

BERNHARD.K.A. [Bernkhard, K.A.] muszaki tudomanyok doktora (Moszkva);

MEZSOVA, R.V. [Mezhova, R.V.], muszaki tudomanyok doktora
(Moszkva)

Specialization of railroad container cars for transporting
chemical goods. Kozl tud sz 14 no. 8:373-376 Ag '64.

L 41862-55

ACCESSION NR A15006618

BOOK EXPLOITATION

S/

Pakhman, T. A. (Candidate of Economic Sciences); Mezheva, R. V. (Candidate of Technical Sciences); Oleynik, O. A. (Engineer); Iudin, N. V.; Berngard, K. A. (Doctor of Technical Sciences; Professor); Frolov, I. A. (Engineer); Tikhonchuk, YU. N. (Candidate of Economic Sciences)

Organization of the railroad transportation of petroleum and chemical liquid freight (Organizatsiya shleznodorozhnykh perevozok neftyanykh i khimicheskikh nalivnykh gruzov), Moscow, Izd-vo "Transport", 1964, 119 p. illus., biblio. 1,500 copies printed. Series note: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut shleznodorozhnogo transporta. Trudy. vyp. 279.

TOPIC TAGS: railroad transportation, oil product, chemical, railroad tank car, railroad freight organization

PURPOSE AND COVERAGE: This book presents a brief analysis of the freight traffic of oil, oil products and chemicals carried in railroad tank cars. It considers problems of specialization in the types of tank cars, equipping special stations for sorting and processing empty tank cars, routing freight, and the concentration of the discharge of oil products at the least number of

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ACCESSION NR AM5006618

stations. The book is intended for researchers, engineers, and technicians of railroad transportation, industry, and other organizations involved in the transportation of petroleum and chemical freight. The book was written by Candidate of Economic Sciences, T. A. Pakhman (Ch. 1, Section 1), Candidate of Technical Sciences, R. V. Meshova (Ch. 1, Sections 2 and 3, Ch. 2, Sections 1 and 2), Engineers, O. A. Oleynik and N. V. Yudin (Ch. 1, Section 4), Doctor of Technical Sciences, Professor, K. A. Berngard (Ch. 2, Sections 3 and 4, Ch. 3, Sections 1, 2 and 3, Ch. 3, Sections 4, 5, 6 and 7), Candidate of Economic Sciences, YU. N. Tikhouchuk (Ch. 5). Assistance in the calculations was provided by Engineers, N. M. Avakyants and R. M. Sheherbina.

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Ch. II. Organization of the flow of railroad tank cars -- 17

Ch. III. Specialization in the types of tank cars and the description of washing-steaming stations -- 48

Ch. IV. Special sorting stations for the preparation of tank cars for discharge -- 76

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Ch. V. Concentration of discharge points of petroleum products -- 101
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SUBMITTED: 22 Jun 64

SUB CODE: 00

NO REF SOV: 012

OTHER: 108

Card 3/3

SHAPOSHNIKOV, David Yefimovich: CHERNICHENKO, V.P., kandidat tekhnicheskikh nauk, retsenzent; ZALESKIY, O.I., inzhener, redaktor; MEZHOVA, V.A., inzhener, redaktor; POPOVA, S.M., tekhnicheskiy redaktor

[Dies for crank, forging and stamping presses; the experience of the Moscow light automobile plant] Shtampy krivoshipnykh kovochno-shtampovochnykh pressov; opyt Moskovskogo zavoda malolitrzhnykh avtomobilei. Pod red. O.I.Zaleskogo. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 122 p. (MIRA 9:9)
(Dies (Metalworking))

POPOV, Andrey Dmitriyevich, kandidat tekhnicheskikh nauk; VASILEVSKIY, P.F.,
kandidat tekhnicheskikh nauk, retsentsent; ~~MEZHOVA~~, I.A., inzhener,
redaktor; TIKHONOV, A.Ya., tekhnicheskiiy redaktor; ~~SEIKIN~~, S.F.,
tekhnicheskiiy redaktor

[Calculation of riser heads for casting] Raschet pribylei dlia otlivok.
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957.
(MLRA 10:5)

53 p.

(Founding)

GEL'MAN, A.S., doktor tekhnicheskikh nauk, professor; KABANOV, N.S.;
SLEPAK, E.S.; LEBEDEV, V.K., kandidat tekhnicheskikh nauk, retsenzent;
MEZHKOVA, V.A., nauchnyy redaktor; TIKHANOV, A.Ya., tekhnicheskiy
redaktor

[Contact butt-welding of pipes] Kontaktnaya stykovaya svarka trub.
Pod red. A.S.Gel'mana. Moskva, Gos.nauchno-tekhn.isd-vo mashino-
stroit. lit-ry, 1957. 231 p. (MLRA 10:8)
(Electric welding) (Pipe, Steel)

111F 2/11 VP, V. 17.
SGIBNEV, Vladimir Fedorovich; MANSUROV, A.M., inzh., retsenzent; MEZHOVA,
V.A., inzh., red.; TIKHANOV, A.Ya., tekhn. red.

[Forging and stamping; problems and exercises] Kuznechno-shtam-
povochnoe proizvodstvo; zadachi i uprazhneniia. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 150 p.
(Forging) (MIRA 11:7)

L'VOV, Dmitriy Sergeyevich; ROZHDESTVENSKIY, Yuriy L'vovich; ABRAMOV,
Aleksandr Vasil'yevich; LITVAK, Lev Kosilevich; ZVORONKO, B.P.,
kand. tekhn. nauk, retsentsent; MEZHOVA, V.A., inzh., red.;
GERASIMOVA, Ye.S., tekhn. red.

[Stamping out ring-shaped parts] Shtampovka kol'tsevykh zagotovok.
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958.
182 p. (MIRA 11:8)

(Sheet-metal work)

MANSUROV, Aleksandr Matveyevich; MEZHOVA, V.A., inzh., red.:
KL'KIND, V.D., tekhn.red.

[Modern forge shops] Sovremennye kuznechno-shtampovochnye
tsakhi. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1959. 299 p. (MIRA 12:8)
(Forging)

ROZANOV, Boris Vasil'yevich; BUNDIN, A.T., kand.tekhn.nauk, red.;
MEZHOVA, V.A., isd.red.; MODIL', B.I., tekhn.red.

[Hydraulic presses] Gidravlicheskie pressy. Moskva, Gos.
nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1959. 427 p.
(MIRA 12:6)

(Hydraulic presses)

USSR/Diseases of Farm Animals. Diseases Caused by Viruses R
and Rickettsiae

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40652.

Author : Pankov, V. A., Lyubashenko, S. Ya., Mezhtsiyems, V. N.

Inst :

Title : Arctic Fox Pest

Orig Pub: Karakulevodstvo i zverovodstvo, 1957, No 6, 59-60.

Abstract: Arctic fox pest enzooty in animal breeding sovkhoses is described. The disease begins with disturbances of the gastro-intestinal tract. After 2 to 3 days, serous, and later mucus and mucopurulent conjunctivitis appears. The urine of some of the animals had an orange-yellow color. Characteristic pathologic and anatomic changes consist in edema of the stomach mucosa, which is sometimes accompanied by hemorrhages

Card : 1/2

MEZHULIS, I. P.

"Data on an Investigation of the Effect of Kemer' Peat Mud on the Cardiovascular System." Cand Med Sci, Inst of Experimental Medicine, Acad Sci Latvian SSR, Riga, 1953. (RZhBiol, No 5, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

FD-1342

MEZHULIS, I. P.
USSR/Medicine - Physiology

Card 1/1 Pub. 33-20/25

Author Danilov, N. V., Pavile, A. P., and Mezhulis, I. P.

Title : Optical polygraph

Periodical : Fiziol. zhur, 4, 4 7-500, Jul/Aug 1954

Abstract Optical polygraph is an apparatus used for measuring arterial pulse, cardiac rhythm, respiratory movements, and maximum and minimum arterial pressure. It is possible to determine venous pressure by raising the sensitivity of plethysmographic recordings. The apparatus consists of photokymograph and auxiliary parts. Photographic recordings are made with the aid of optical capsules on photographic paper up to 150 mm in width. Diagrams

Institution : Chair of Normal Physiology, Riga Medical Institute and Section of Morphology and Physiology, Institute of Experimental Medicine, Academy of Sciences, Latvian SSR

Submitted April 1, 1954

USSR/Human and Animal Physiology. Blood Circulation. General Problems.

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55551.

T-5

Author : Mezhulis, I. P.
Inst : Institute of Experimental Medicine, Academy of Sciences Latvian SSR.

Title : Functional Characteristics of the Cardiovascular System in Athletes.

Orig Pub: Tr. in-ta eksperim. med. AN LatvSSR, 1956, 11, 213-220.

Abstract: The duration of the ventricle systole (DS) in athletically trained and untrained persons was examined by registering the sphygmogram of the carotid artery and using the acrooptical or the piezoelectric method. At a state of rest, DS amounted to 22-24

Card : 1/3

USSR/Human and Animal Physiology. Blood Circulation. General
Problems.

1-5

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55551.

percent of the total heart cycle in trained athletes, while in untrained persons it amounted to 33-35 percent. After strain (20 squattings in 20 seconds), the systole increased in the trained subjects by 22-32 percent, or else it decreased slightly. In untrained subjects, the systole decreased by 30-54 percent. In order to characterize the functional capabilities of the cardiovascular systems the following systolic coefficient was proposed: $C_s = (t_{s1}/a_1) : (t_{s0}/a_0)$, whereby t_{s1} and t_{s0} represent DS after and before a strain, and a_1 and a_0 represent the duration of the heart cycle after and before strain. In untrained subjects this coefficient was found to exist within the limits of 0.8-1.15, and in trained subjects it

Card : 2/3

73

USSR/Human and Animal Physiology - Blood Circulation.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 31729

T-5

Author : Bumeyster, V.K., Mezulis, I.P.

Inst :

Title : Registration of Arterial Pulse by Means of the Electrocardiograph.

Orig Pub : Tr. In-ta eksperim. med. AN LatvSSR, 1956, 11, 243-246.

Abstract : A transmitter that consists of a piezoquartz crystal mounted in a bit of organic glass is attached over an artery. On an electrocardiograph, a sphygmogram of the large arteries is registered in an unscreened installation, of the small ones - in a screened installation. A multichannel electrocardiograph can simultaneously register the sphygmogram of the arterial channel at different distances from the heart and record the propagation velocity of the pulse wave.

Card 1/1

- 52 -

LATVIA / Human and Animal Physiology. Blood Circulation. T

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22133.

Author : ~~Mezhulis, I. P.~~, Ozolinsh, F. P.

Inst : Inst. Experiment Med. AN. Latv S.S.R.

Title : Nine Channel Apparatus for Registration of
Aero-optical Hemodynamic Indices.

Orig Pub: Tp. In-ta eksperiment. med. AN Latv. S.S.R., 1956,
11, 247-251.

Abstract: The apparatus represents an improved optical
polygraph. (See Fisiol. zh. S.S.R. 1954, 40, 41).
Six channels are designed for registration of
hemodynamic indices. Three for registration of
time, pressure in the sphygmomanometer cuff and
stimulation. In each channel the cuff of the

Card 1/3

60

LATVIA / Human and Animal Physiology. Blood Circula- T
tion.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22133.

Abstract: sphygmomanometer is used for the registration of plethysmograms or of the pulse volume, a stylus used for the inscription of the sphygmogram, Marey's capsule for the registration of sphygmograms of the carotid artery or the venous pulse. The sphygmomanometer cuff is connected by a rubber tube with Marey's capsule, which is provided with a mirror reflecting upon a photokymograph a light beam from a light source. Time is marked off (1.0-0.1 sec.) with the aid of a synchronized motor with a sector obturator, intersecting the light beam of the light source. A differential optical manometer is

Card 2/3

LATVIA / Human and Animal Physiology. Blood Circulation. T

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22133.

Abstract: used for the registration of the oscillograms and the level of arterial pressure. The instrument also permits the measurement of the rate of propagation of the pulse wave, the registration of the apical heart impulse, respiratory movements etc.

61

Card 3/3

USSR/Human and Animal Physiology (Normal and Pathological) T
Nervous System. Higher Nervous Activity. Behavior.

Abs Jour : Ref Zhur Biol., No 6, 1959, 27068

Author : Danilov, N.V., Danilova, T.I., Lurynya, M.K., Mezhulys,
I.P.

Inst : AS USSR

Title : On Changes of Unconditioned Reflexes in Different Func-
tional Condition of the Cerebral Cortex of Large Hemis-
pheres.

Orig Pub : V sb.: Probl. fiziol. tsentr. nervn. sistemy, M.-L.,
AN SSSR, 1957, 223-228

Abstract : At the time of production of acid conditioned reflex
(CR) in dog, unconditioned secretion of saliva and gas-
tric juice decreased. Gastric secretion decreased still
more in experiments with differentiation and especially

Card 1/2

USSR/Human and Animal Physiology (Normal and Pathological) T
Nervous System. Higher Nervous Activity. Behavior.

Abs Jour : Ref Zhur Biol., No 6, 1959, 27068

with extinction of CR. Evacuation of Kemer's mineral water from the stomach as well as bile secretion at the time of CR production increased. Mud procedures (boots) weakened the pressory carotid reflex and increased the depressory. At the time of production of acid CR, the procedures induced the reverse influence. The same was observed also in deprivation of sleep. Mud applications on a background of effect of caffeine (0.2 g subcutaneously) increased blood pressure and increased pressory and depressory carotid reflexes, on a background of action of Br (2 g. internally) the pressory reflex increased and depressory weakened. Diuresis increased in infusion into the stomach of mineral water at the time of production of motor CR. -- A.M. Ryabincovskaya

Card 2/2

- 142 -

USSR/Human and Animal Physiology (Normal and Pathological)
Neuro-Muscular Physiology

T

Author
Abstr Jour : Mezulis, I.P.

Inst : Institute of Experimental Medicine, Academy of Sciences
Latvian SSR

Title : On Spatial Pessimism in Neuro-Muscular Specimen of Frog.

Orig Pub : Tr. In-ta eksperiment. med., AN LatSSR, 1958, 17, 285-288

Abstract : The experiments were conducted on neuro-muscular specimens of frog. Sciatic nerve was prepared up to spinal column and the trunks which form it which corresponded to VIII and IX radicles were placed on separate pairs of electrodes which were connected to secondary coils of separate induction apparatuses. A current was selected of a force whose stimulation of separate branches of the sciatic nerve induced submaximum tetanic contraction of the muscle without the appearance of a pessimum.

Card 1/3

USSR/Human and Animal Physiology (Normal and Pathological)
Neuro-Muscular Physiology.

T

Abs Jour : Ref Zhur Biol., No 6, 1959, 26914

In experiments with fresh specimens connection of short tetanic stimulus of the second nerve branch to "background", i.e., uninterrupted stimulation of one of the branches of the nerve (first), increased the tetanus of muscle for the duration of action of the short stimulation. After its termination, myogram curve decreased to a level which was determined by prolonged stimulation of one of the branches of sciatic nerve. New inclusion of second stimulation again increased the myogram curve. In experiments with specimens poisoned with eserine, the connection of additional stimulation to the background one induced a noticeable decrease of the myogram curve for the duration of action of the additional stimulation. After termination of additional stimulation, the curve returned quickly to the background level. A conclusion is made on the possibility of obtaining spatial

Card 2/3

- 74 -

USSR/Human and Animal Physiology (Normal and Pathological)
Neuro-Muscular Physiology.

T

Abs Jour : Ref Zhur Biol., No 6, 1959, 26914

pessimism on neuro-muscular specimen of frog and on the
significance of humoral factor, acetylcholine, in that
phenomenon.

Card 3/3

AUGSHKAP, R.P. [Augakaps, R.]; MMZHULIS, Ya.K. [Merulis, J.], inzh.

Using molds with reinforced concrete walls. Bet.i zhel.-bet.
no.4:174-176 Ap '60.

(MIRA 13:8)

1. Spetsial'noye konstruktorskoye byuro Rishakogo zavoda
krupnopanel'nogo domostroyeniya.
(Riga--Concrete slabs)

AUGSHKAP, R.P., insh.; MEZHULIS, Ya.K., insh.

Making large panels in reinforced concrete molds. Stroi. i dor.
machinostr. 5 no.6:20-23 Je '60. (MIRA 13:7)
(Concrete slabs)

MEZHUJIS, JA

AUGSHKAP, Robert Petrovich [Augschaps, Roberts], inzh.; MEZHULIS, Janis [Mezulis, Janis]; POLUBNEVA, V.I., inzh., red.

[Cassettes with reinforced concrete partitions for manufacturing panels] Kassety s zhelezobetonnyimi razdel'nymi stenkami dlia izgotovleniia panelei. Moskva, Gosstroizdat, 1960. 22 p. (MIRA 16:9)

1. Spetsial'noye konstruktorskoye byuro pri Rishskom zavode zhelezobetonnykh izdeliy krupnopanel'nogo domostroyeniya (for Augshkap, Mezhulis)

(Precast concrete construction)

MEZHULIS, Iag, inzh.

Factory manufacture of details for large-panel houses in Riga.
Zhil. stroi. no. 7-9 '61. (Riga—Concrete slabs)

AUGSHKAP, R.P. [Augškaps, R.], inzh.; MEZHULIS, Ya.K. [Mežulis, J.]

Operations of the Riga reinforced-concrete element factory.
Mekh.stroi. 18 no.4:13-15 Ap '61. (MIRA 14:6)

1. Rizhskiy zavod zhelezobetonnykh izdeliy.
(Riga--Reinforced concrete)

SEDOV, K.R.; MEZHUY, Ye. A.

Certain problems of prevention and therapy of malaria on the regional bases. Sovet. med. 17 no.4:23-24 Apr 1953. (CML 24:4)

1. Candidate Medical Sciences for Sedov. 2. Of the Therapeutic Division of Stavropol' Hospital and of Stavropol' Antimalarial Station, Kuybyshev Oblast.

L 10703-67 EWT(d)/EWT(m)/EMP(v)/EMP(t)/WTI/EM(k)/EM(h)/EM(l) IJP(c) JN/WJ
ACC NR: RP6027580 (A,N) SOURCE CODE: UR/0403/00/000/000/001/0010

AUTHOR: Porodin-Alekseyev, G. (Doctor of technical sciences, Meritorious in science and technology of the RSFSR); Mezhuayov, B. (Candidate of technical sciences); Maslakov, I. (Engineer)

ORG: None

TITLE: Electrochemical machining of materials

SOURCE: VDMBI SSSR. Informatsionnyy byulleten', no. 6, 1966, 13-16

TOPIC TAGS: *SHAPING MACHINE,* electrochemistry, electrolysis, machine tool / AGS-2 shaping machine, EKHO-1 shaping machine, 7972-401h shaping machine, BLUZ-1h shaping machine, BLUZ-3 shaping machine

ABSTRACT: Seven various electrolytic devices used for material shaping and forming operations are described and illustrated. The first device designed by the Dublin branch of EMIS is used for obtaining cono- or wedge-shaped articles by means of moving the workpiece (anode) in a cylinder (cathode) filled with a 15-pct salt solution (electrolyte). The process is described including data on article sizes, tolerances, electrode gaps, productivity, etc. The second apparatus is a machine tool of a semi-automatic AGS-2 type used for more complicated shaping operations. It is based on the principle of anodic dissolution of metals in a 7 to 10-pct salt solution at small inter-electrode gaps. It is provided with an electronic control system. Its production capacity is 7000 cu mm/min, requiring a power of 60 kw. The third device of semi-automatic EKHO-1 type is used for profile blade milling by means of straight moving electrodes of a mirror-image profile.

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L 10703-57

ACC NR: AP6027580

4

A 10-pct salt solution is used as electrolyte. The fourth description covers an electrochemical machine-tool of 7972-4014 type designed by the Moginsk Heating Equipment Plant. It is used for snapping holes of fuel pump drive fittings in a 6 to 10-pct salt solution. Its production is 40 cu mm/min. Its 990 x 580 x 980 mm casing is made of plastic materials. Its weight is 400 kg. The fifth described machine-tool of BLUZ-14 type designed by the ultrasonic laboratory of the Minsk Tractor Plant is used for removing various surface defects caused by heat treatment of pinion gears and other similar articles. A method of anodic dissolution in a running water-salt electrolyte (10 to 20%) is applied. A d-c power supply of 15 kw, 10 to 15 v, 250-300 amp is needed. The overall size is 900 x 650 x 1100 mm. The sixth device of an ultrasonic BLUZ-3 type is used for removing barbs from pinion gears by means of electrolytic jets (10 to 20-pct salt solution). It is fed from a d-c source of 500 amp and 20 to 40 v. Its size is 1240 x 600 x 1000 mm. The seventh item mentioned in the text covers the description of an electrochemical honing grinding machine used for polishing ductile metal alloys. A cross-section of the machine equipped with an electrolyte bath is presented. The operation of the machine is generally described. Orig. art. has: 6 photos, 1 diagram.

SUB CODE: 13/ SUBM DATE: None

Card

2/24

MEZHUYEV, A

Toward sun and wind. Kryl.rod. 12 no.9:16 S '61. (MIR) 11:
(Yaroslavl--Aeronautics--Competitions)

PHASE I BOOK EXPLOITATION. SOV, 1961

Novoye v elektricheskoy i ultrazvukovoy obrabotke materialov (New Developments in Electrical and Ultrasonic Machining of Materials) [Leningrad], 1959. 261 p. 5,000 copies printed.

Ed. (title page), L.Ya. Popilov; Ed. (inside book): S.I. Sorochnev. slays; Tech. Ed.: F.S. Shurlov.

PURPOSE: This book is intended for technical personnel and production workers.

COVERAGE: This is a collection of 20 articles presented at the All-Union Conference of the Scientific and Technical Society of the Machine Industry on Electrical and Ultrasonic Machining of Metals, held in Leningrad. The articles deal with the latest achievements in the field of electrical and ultrasonic machining of metals. New methods of machining presently being developed are described. References follow several of the articles.

Livebits, A.L.; S.I. Podlasov, A.S. Kravets, and A.I. Anokov. Some Problems in the Technology and Design of Machines for Electroerosion Machining of Metals 67

Reachev, I.S. Electric-Pulse Generators of Bipolar Pulses for Electroerosion Machining of Metals 109

Machkinin, L.Ya. Electrical-Pulse Machining of Forging-Die Grooves 115

Ryabinko, A.D. Intensity of Metal Removal and Surface Quality in Electrolytic Machining of Castings 134

Mkushin, O.A. Selection of Process Regimes in Electrolytic Contour Machining 145

Outkin, B.O. Electric-Resistance Machining of Metals 151

Yamogorodskiy, I.Z. New Uses of Heating in Electrolytes 157

Mikheylov, V.A. Cleaning and Degreasing of Parts and Intensification of Electroplating with the Aid of Ultrasonics 174

Goryachev, N.S. Technique of Ultrasonic Machining of Carbide Dies 183

Ustinov, V.V. Production of Magnetostrictive Transducers for Ultrasonic Machines for Machining Castings 195

Melnyukov, E.M. Ultrasonic Machining of Parts Made of Ceramic Materials 203

Raditsky, D.B. Ultrasonic Units Developed by USSR FPO 211

Krambol't, M.M. Spot Welding with the Use of Ultrasonics 235

Babitsky, O.I., and B.Ye. Mikheylov. Methods of Ultrasonic Analysis and Inspection 244

AVAILABILITY: Library of Congress (71 1192 :P 63)

Card 4.3

WV 76:10
8-12-60

YENIKEYEV, Kh.M.; KOZLOV, D.N.; KRUSHILIN, M.P.; MEZHUYEV, B.N.;
NALCHAN, A.G.; NIKULIN, A.I.; PANKIN, V.A.; SHAVIN, G.F.;
LESNICHENKO, I.I., red. izd-va; SMIRNOVA, G.V., tekhn.
red.

[Metal-cutting machines; kinematic adjustment of metal-
cutting machines] Metalloreshushchiye stanki; kinematicheskaya
nastroika metalloreshushchikh stankov. Pod red. A.G.Nalchana.
Moskva, Mashgis, 1962. 179 p. (MIRA 16:2)

1. Moscow. Vsesoyuznyy zaochnyy mashinostroitel'nyy institut.
Kafedra "Metalloreshushchiye stanki i instrumenty." 2. Prepo-
davately kafedry "Metalloreshushchiye stanki i instrumenty"
Vsesoyuznogo Zaochnogo Mashinostroitel'nogo instituta (for
all except Lesnichenko, Smirnova).

(Metal cutting) (Machinery, Kinematics of)

MARKOV, Aleksey Ivanovich, kand. tekhn. nauk, dotsent; MEZHUYEV, B.N.,
kand. tekhn.nauk, dots., retsenzent; BALANDIN, A.F., red. izd-
va; SOKOLOVA, T.P., tekhn. red.

[Using ultrasonic and sonic oscillations for cutting difficult-
to-machine materials] Resanie trudnoobrabatyvaemykh materialov
pri pomoshchi ul'trazvukovykh i zvukovykh kolebaniy. Moskva,
Mashgiz, 1962. 330 p. (MIRA 15:7)
(Ultrasonic metal cutting)

L 41297-65 EWP(e)/EPA(a)-2/EWT(m)/EPF(c)/EWP(i)/EPF(n)-2/EPR/EPA(w)-2/T/
EWP(t)/EWP(k)/EWP(b) : Pab-10/Pf-4/Pr-4/PS-4/Pt-10/Pu-4 IJP(c) JD/HW/46/
ACCRSSION NR: AR5005687 S/0276/64/000/009/B042/B042 WH 65

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya. Svodnyy tom, Abs. 93246 B

AUTHOR: Mezhukey, B. N.

TITLE: Ultrasonic machining of parts made from cermet materials

CITED SOURCE: Sb. nauchn. tr. Vses. zaachn. mashinostroit. in-t. vyp. 5. 1963, 105-121

TOPIC TAGS: cermet, boron carbide abrasive, ultrasonic machining, ultrasonic tool design, process factor analysis

TRANSLATION: The results of an experimental analysis of ultrasonic machining, carried out to define the optimal values for a number of technological factors and evolve an effective design of major elements of an ultrasonic unit insuring peak productivity at required tolerances and surface purities, are reported. Cermet materials were machined at a tool oscillation frequency $f = 18$ kcps. Boron carbide in the form of a water suspension was used as the abrasive. Basic experiments involved drilling of holes ($\phi = 7$ mm) in pieces made of a high quality cermet (HRC90).

Card 1/2

J. 41297-65

ACCESSION NR: AR5005687

The effects of specific pressure between the tool and the machined piece, of the abrasive material and its grain size, of the material of the tool, the material of the machined piece, and the frequency and amplitude of tool oscillation, as well as the area of the tool's working face, were defined. Recommendations are offered as to the optimal values of the analyzed parameters and the possible expansion of ultrasonic machining into the field of thread cutting and other operations on rotating pieces. Thirteen illustrations. Ye. Slutskiy.

SUB CODE: IE, MT

ENCL: 00

me
Card 2/2

MEZHUYEV, S.P.; GLINSKIY, V.A., starshiy elektromekhanik; MYASNIKOV,
A.Ya., elektromekhanik; MAZUROK, V.S.

From the editor's mail. Avtom., telem. i svyaz' 4 no.1:44
Ja '60. (MIRA 13:4)

1. Nachal'nik Aktyubinskoy distantzii signalizatsii i svyazi Kazakhskoy dorogi (for Meshuyev).
 2. Sverdlovskaya distantziya signalizatsii i svyazi Sverdlovskoy dorogi (for Glinkikh).
 3. Grodnenskaya distantziya signalizatsii i svyazi Belorusskoy dorogi (for Myasnikov).
 4. Starshiy inzhener proyektno-konstrukorskogo byuro "Metallurgavtomatika" (for Mazurok).
- (Railroads--Communication systems)
(Railroads--Signaling)

LISKOVSKIY, N. G.; MEZHUYEV, V. I.; KOSOLAPOV, V. P.; ANDRYUSHENKOV, V. I.

Using the EKST-2000 lamps in Krivoy Rog Basin open-pit
mines. Gor. zhur. no 9:65-66 S '64.

1. Krivorozhnskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta organizatsii i mekhanizatsii shakhtnogo stroitel'stva
(for Liskovskiy, Mezhuiev). 2. Rudnik Yuzhnogo Kraya
tsefnogo kombinata (for Kosolapov, Andryushenkov).

S/051/60/009/006/005/018
E201/E191

AUTHORS: Sverdlov, D.M., Klochkovskiy, Yu.V., Kukina, V.S.
and Mezhuzeva, T.D.

TITLE: Vibrational Spectra and Potential Energy Constants of
Halogenated Ethylenes. 1 Monochloroethylene,
Monofluoroethylene, 1,1-dichloroethylene,
1,1-dibromoethylene and their Deuterated Derivatives

PERIODICAL: Optika i spektroskopiya, 1960, Vol.9, No 6, pp 728-733

TEXT: Sverdlov, Klochkovskiy and Kukina (Ref.1) showed that
the vibrational spectra of halogenated ethylenes can be calculated
using the force constants of ethylene (Ref.2) and halogenated
methanes (Ref.3). The present paper extends this work to
calculation of normal vibrations and potential energy constants of
monochloroethylene and $\text{CH}_2=\text{CDCl}$, 1,1-dichloroethylene,
1,1-dibromoethylene and $\text{CBr}_2=\text{CHD}$, $\text{CBr}_2=\text{CD}_2$, monofluoroethylene
and its seven deuterated derivatives whose formulae are given in
the middle of page 728. For the purpose of this calculation the
authors used the force constants of ethylene and halogenated
methanes, as well as the force constants of halogenated ethylenes
reported in the earlier paper (Ref.1). The calculations were
Card 1/2

✓

S/051/60/009/006/005/018
E201/E191

Vibrational Spectra and Potential Energy Constants of Halogenated
Ethylenes. Monochloroethylene, Monofluoroethylene,
1,1-dichloroethylene, 1,1-dibromoethylene and their Deuterated
Derivatives

carried out by the method of Yel'yashevich and Stepanov (Ref 3).
Natural vibrational coordinates (Figs 1, 2) were used. Tables 1-4
give the calculated frequencies and interpretation of the
vibrational spectra of monofluoroethylene and its seven deuterated
derivatives (Table 1), of monochloroethylene and $\text{CH}_2=\text{CDCl}$ (Table 2),
of 1,1-dibromoethylene and its two deuterated derivatives (Table 3),
and of 1,1-dichloroethylene (Table 4). The calculated and
experimentally observed frequencies agreed quite well. The published
interpretations of the vibrational spectra were either confirmed or
modified. Parameters of the force fields of the halogenated
ethylenes were calculated.
There are 2 figures, 4 tables and 18 references: 4 Soviet,
10 English, 1 German, 1 French, 1 international and 1 Japanese.

SUBMITTED: March 28, 1960

Card 2/2

ANOKHINA, A.P., epidemiolog; BELIKOV, L.A., dotsent; GORSHKOVA, N.M.,
epidemiolog; MEZHUYEVA, T.P., sanitarnyy vrach

Water-borne outbreak of dysentery. Gig.i san. 26 no.12:60-62 D '61.
(MIRA 15:9)

1. Iz Kuybyshevskoy gorodskoy i Kuybyshevskoy rayonnoy sanitarno-
epidemiologicheskoy stantsiy i kafedry infektsionnykh bolezney
Kuybyshevskogo meditsinskogo instituta.
(DYSENTERY)

RECEIVED, ...

USSR/Electronics
Oscilloscopes

Feb 47

"Oscillographic Analysis of Pulses," I. S. Stekol'mikov, V. V. Mezhenyeva, Lower
Eng Inst imeni G. M. Krzhizhanovskiy, Acad Sci USSR, 5 pp

"Iz Ak Nauk SSSR, Otdel Tekhn. Nauk" No 2

Gives schematic diagram and parts of new oscil. oscrope, operating with an 100V-voltage
5-6 times normal, and registering phenomena with durations of only 10^{-7} to 10^{-8} sec.
Submitted by Acad G. M. Krzhizhanovskiy, 4 Jul 48.

PA 33/4236

ARONSON, N.Z.; MEZHUYEVA, V.V.

Investigation of an arc in a quenching chamber with air blast. Zhur.
tekh. fiz. 30 no.5:555-560 My '60. (MIRA 13:8)

1. Energeticheskiy institut im. G.M.Krzhizhanovskogo AN SSSR, Moskva.
(Electric arc)

BORISOV, V. N.; ALEKSANDROV, D. S.; MEZHUYEVA, V. V.

Study of the arc quencing properties of freon and electron
gas. Elektroenergetika no.6:129-136 '62. (MIRA 16:4)

(Freon—Electric properties)
(Electron gas—Electric properties)
(Electric switchgear)

BORISOV, V. M.; ALEKSANDROV, D. S.; MEZHUYEVA, V. V.

Study of the quenching of an electric arc in an electron gas.
Elektroenergetika no.6:137-152 '62. (MIRA 16:4)

(Electron gas—Electric properties)
(Electric switchgear)
(Electric arc)

SORKIN, M.M.; GAVRILOVA, G.Ye.; MEZHUYEVA, Ye.A.; KOGAN, M.G.

Causes of dark-colored ammonium sulfate in by-product coke plants.
Koks i khim. no.1:55-56 '56. (MLRA 9:5)

1. Bagleyskiy koksokhimicheskiy zavod.
(Ammonium sulfate)

MEZHUYEVA, YE. A.

68-1-12/21

AUTHOR: Olovyanikov, Ye.Ye., Engineer, Sorokin, M.M. and
Meshuyeva, Ye.A.
TITLE: A Simplified Design of the Gas-distributing Cone for
 Saturators. (Uproshchennaya konstruktsiya zonta saturatora)

PERIODICAL: Koks i Khimiya, 1957, no.1, pp. 37 - 38 (USSR)

ABSTRACT: It is stated that the faolite cone distributor used at present in saturators for the production of ammonium sulphate, breaks easily due to its complicated design. The authors described a simplified design of the gas distributor which they tested on one of the operating saturators in the Bagley-skiy Coke Oven Works (Bagleyaskiy Koksokhimicheskiy Zavod). The distributor consisted of a cylinder (forming prolongation of the gas main to the depth of normal cone) to which 30 directing plates were welded (figure, p.38). The addition of acid was done through a tube passing into the distributor, i.e. at gas inlet and not on gas outlet as in usual practice. Operating results of the saturator during the testing period are given in Table 1 and size distribution of the sulphate produced in Table 2. After the test (20 days) the distributor was dismantled and found to be free from salt sediments. It is concluded that the simplified design of distributor is satisfactory and is recommended as a replacement for cone-shaped

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MEZHVILK, A.A.

Melasses in the mouth of the Lena River. Dokl.AN SSSR 108 no.2:
317-319 My '56. (MIRA 9:9)

1.Nauchno-issledovatel'skiy institut geologii Arktiki. Predstav-
lene akademikom D.V.Nalivkinym.
(Lena River--Delta)

DOROFYEV, P.I.; MIZHVILK, A.A.

Pliocene deposits and the flora of the Kureyka Valley.

Dokl. AN SSSR 110 no.3:449-452 S '56.

(MLRA 9:12)

1. Botanicheskiy institut Akademii nauk SSSR i Institut
geologii Arktiki. Predstavleno akademikom V.N. Sukachevym.
(Kureyka Valley--Paleobotany)

MEZHVILK, A. A.

AUTHOR: Mezhevik, A.A.

11-58-3-6/14

TITLE: The History of the Geologic Development of North Kharaulakh
(Istoriya geologicheskogo razvitiya Severnogo Kharaulakha)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, # 3,
pp 78-84 (USSR)

ABSTRACT: Recent stratigraphic work and detailed surveys have allowed the geologic history of the region from the estuary of the Lena river to the Laptev Sea, between 72°30' and 71° of northern latitude, to be determined exactly. The region is called North Kharaulakh.

- The following tectonic structures were located and studied:
1. The Olenek elevation, formed by horizontal layers of rocks of the Cambrian Period, together with small quantities of metamorphic and minor outcrops of eruptive Proterozoic rocks in the river valleys; it is surrounded from 3 sides by formations of the Mesozoic Era;
 2. The Lena depression, filled with Permian, Triassic, Jurassic and Cretaceous deposits, accumulated in a large asymmetrical synclinal fold with steep eastern and sloping western wings;
 3. The Kharaulakh anticlinorium of first order composed of:
 - a) West-Kharaulakh anticlinorium with 2 rather asymmetric anticlinal folds (Bulkur and Kengdey) and with Lower Paleozoic

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rocks in the center. These anticlines are divided by the Tasarin syncline, filled with sediments of Permian, Triassic, Jurassic, and Cretaceous Periods; b) Central synclinorium - a complex geologic formation with inverted linear folds of rocks of the Upper Paleozoic Period on the wings with less dislocated sediments of Triassic Period in the axial part; c) The Bykov anticline, formed by Silurian, Devonian, Carboniferous and Permian rocks divided into tectonic blocks.

The author comes to the conclusion, that this territory, together with a part of the Siberian Plateau was subjected to 13 major transgressions during the Paleozoic, Mesozoic and Cenozoic Eras. The process of tectonic movements often varied. During the Lower and the Middle Paleozoic Periods oscillatory movements of the plateau type took place. There were differentiated movements of great amplitude during the Upper Paleozoic Period. The Upper Paleozoic depression, filled with terrigenous sediments was formed during this period. During the Triassic, Jurassic and Lower Cretaceous Periods, North Kharaulakh, together with parts of the Siberian plateau, was subjected to vibrating movements. After the Lower Carboniferous Period, a geosyncline was formed during

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the Upper Paleozoic Period in place of a plateau, and its formation was accompanied by abyssal breaks. During the Upper Cretaceous Period, as a result of plicative dislocations, an accretion of folds occurred in a westerly direction. Finally, the accumulation of sediments during the initial stages of transgression in the Lower Permian, Lower Triassic, Lower Jurassic and Lower Cretaceous Periods is not, as usual, characterized by coarse grained formations, but by small grained formations.

There is 1 map and 14 Soviet references.

ASSOCIATION: Institut Geologii Arktiki, Leningrad (Institute of Geology of the Arctic, Leningrad)

SUBMITTED: March 7, 1957

AVAILABLE: Library of Congress

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~~MEZHVILK, A.A.~~

Stratigraphy of the northern part of the Kharaulakh Range [with
summary in English]. Sov.geol. 1 no.7:43-61 Jl. '59.
(MIRA 11:11)

1. Institut geologii Arktiki.
(Kharaulakh Range--Geology, Stratigraphic)

MEZHVILK, A.A.

Sinian and Cambrian in the southern part of the Anabar Massif.
Inform. biul. NIIGA no.2:8-11 '58. (MIRA 12:10)
(Anabar Massif--Geology, Stratigraphic)

MEZHVILK, A.A.

New data on the stratigraphy of Ordovician and Silurian sediments
in the northern Kharaulakh Range. Trudy NIIGA 80:55-60 '58.

(MIRA 14:11)

(Kharaulakh Range--Geology, Stratigraphic)

MEZHVILK, A.A. [Mezvilks, A.A.]

Age of metamorphic formations in northeastern Korea. Sov.geol.
4 no.11:55-63 N '61. (MIRA 14:11)

1. Nauchno-issledovatel'skiy institut geologii Arktiki.
(Korea, North--Rocks, Crystalline and metamorphic)
(Geological time)

MEZHVILK, A.A.

Key horizons among effusive traps in the Siberian Platform.
Geol.i geofiz. 4:68-75 '62. (MIRA 15:8)

1. Nauchno-issledovatel'skiy institut geologii Arktiki, Leningrad.
(Siberian Platform--Rocks, Igneous)